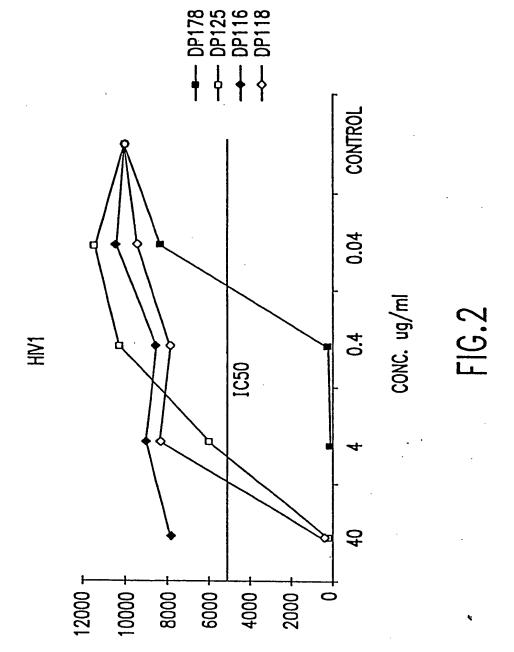




HIV1LAI (DP-178; SEQ ID NO.:1)	HIV1LAI (DP-178; SEQ ID NO.:1) YTSLIHSLIEESQNQQEKNEQELLELDKWASLWNWF
HIV1SF2 (DP-185; SEQ ID NO.:3)	HIV1SF2 (DP-185; SEQ ID NO.:3) YTNTIYTLLEESQNQQEKNEQELLELDKWASLWNWF
HIV1RF (SEQ ID NO.:4)	YTGIIYNLLEESQNQQEKNEQELLELDKWANLWNWF
HIVIMN (SEQ ID NO.:5)	YTSLIYSLLEKSQTQQEKNEQELLELDKWASLWNWF
HIV2ROD (SEQ ID NO.:6)	LEANISKSLEQAQIQQEKNMYELQKLNSWDIFGNWF
HIV2NIHZ (SEQ ID NO.:7)	LEANISQSLEQAQIQQEKNMYELQKLNSWDVFTNWL
DP180 (SEQ ID NO.:2)	SSESFTLLEQWNNWKLQLAEQWLEQINEKHYLEDIS
DP118 (SEQ ID NO.:10)	QQLLDVVKRQQEMLRLTVWGTKNLQARVTAIEKYLKDQ
DP125 (SEQ ID NO.:8)	CGGNNLLRAIEAQQHLLQLTVWGIKQLQARILAVERYLKDQ

DP116 (SEQ ID NO.:9)



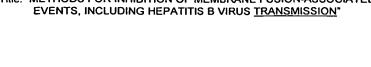


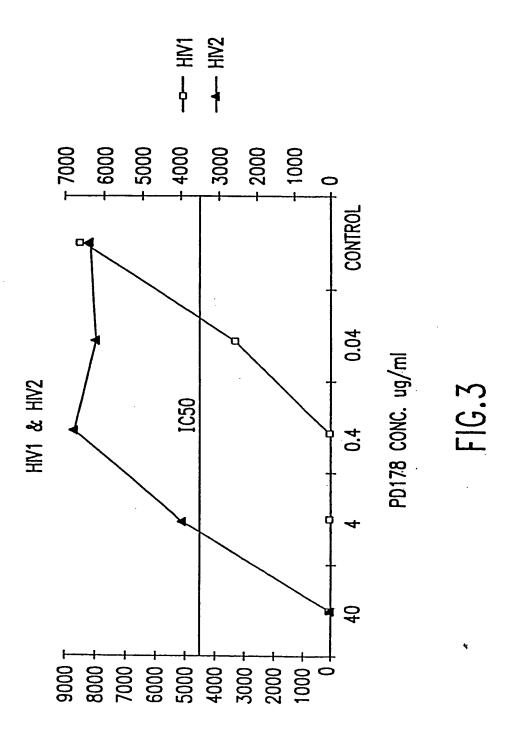


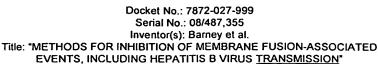
Docket No.: 7872-027-999



Docket No.: 7872-027-999









Number of Syncytia/well: concentration in μ g/ml (micrograms/ml) **DP178** 10 0.0125 5 1 0.2 0.1 0.05 0.025 Control Syncylia **HIVILAI** 0 0 0 0 0 0 0 0 67 HIV1MN 0 0 0 0 0 ND ND ND 34 HIV1RF 0 0 0 0 0 ND ND - ND 65 HIV1SF2 0 0 0 0 0 ND ND 58 ND DP125 10 5 0.2 0.1 0.05 0.025 0.0125 Control Syncylia HIVILAI 0 0 69 54 80 **75** 79 82 67 HIVIMN 0 30 36 ND ND ND ND 34 **HIVIRF** 0 0 67 63 ND ND ND ND 65 HIV1SF2 0 0 9 66 ND ND ND ND 58 DP116 10 5 1 0.2 0.1 0.05 0.025 0.0125 Control Syncylia HIVILAI 75 ND ND ND ND ND ND ND 67 HIVIMN 35 ND ND ND ND ND ND ND 34 HIVIRF 81 ND ND ND ND ND ND ND 65 HIV1SF2 81 ND. ND ND ND ND ND 58 ·ND

FIG.4A

DP180 Syncylia	40	20	10	5	2.5	1.25	0.625	0.3125	Control
HIVILAL	50	>45	>45	>45	>45	>45	>45	>45	58
DP185 Syncytia	40	20	10	5	2.5	1.25	0.625	0.3125	Control
HIVILAI	0	0	0	0	0	0	0	ND	60

FIG.4B

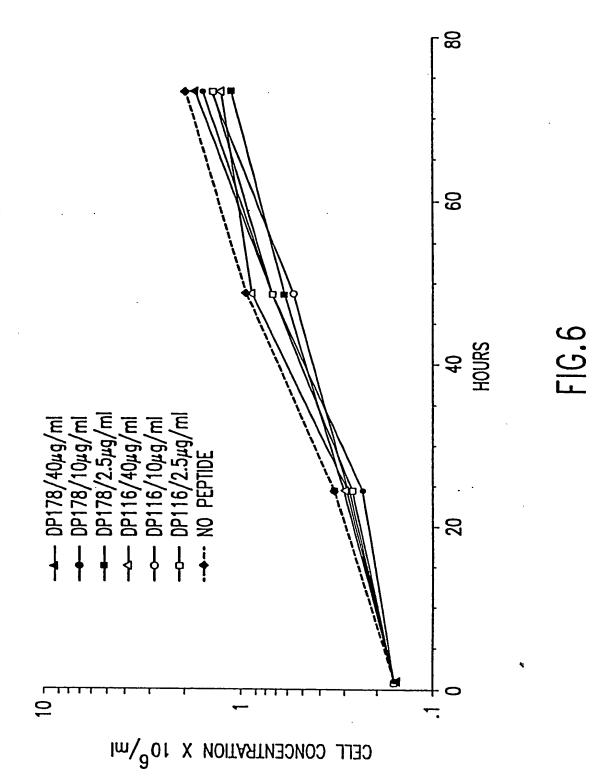


								
				HIV1				
_	Number	of	Syncyl	ia/well:	conce	ntration	in ng/ml	(nanograms/ml)
DP178	20	10	5	2.5	1.25	0.625	0.3125	Control
Syncylia HIV1	0	0	0	0	0	14	20	48
DP116	20	10	5	2.5	1.25	0.625	0.3125	Control
Syncylia HIV1	ND	48	ND	ND	ND	ND	ND	ND
				HIV2	<u> </u>			
	Number	of	Syncyl	.ia/well:	conce	ntration	in μg/ml	(micrograms/ml)
DP178	20	10	5	2.5	1.25	0.625	0.3125	Control
Syncylia HIV2	50	54	55	57	63	77	78	76
DP116	20	10	5	2.5	1.25	0.625	0.3125	Control
Syncylia HIV2	ND	58	ND	ND	ND	ND	ND	ND

FIG.5

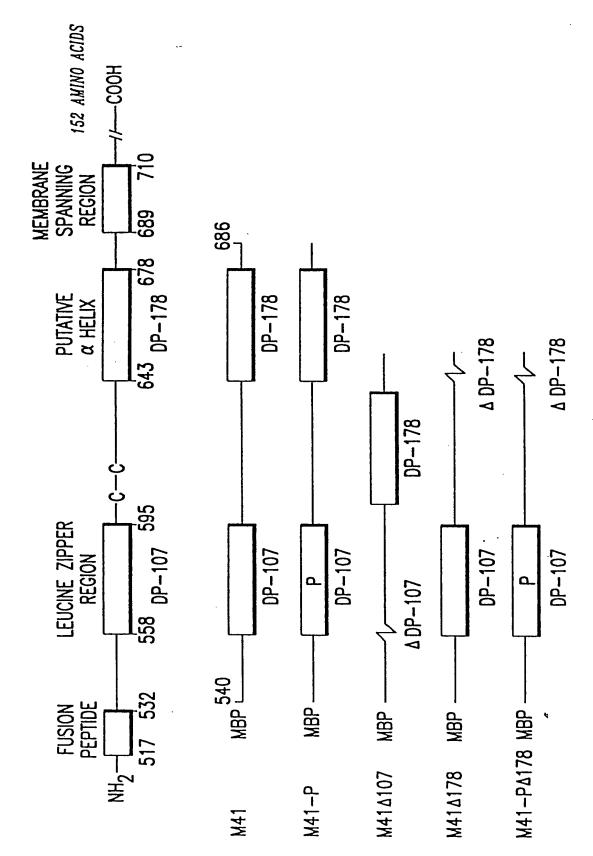
Inventor(s): Barney et al.

Title: "METHODS FOR INHIBITION OF MEMBRANE FUSION-ASSOCIATED EVENTS, INCLUDING HEPATITIS B VIRUS TRANSMISSION"



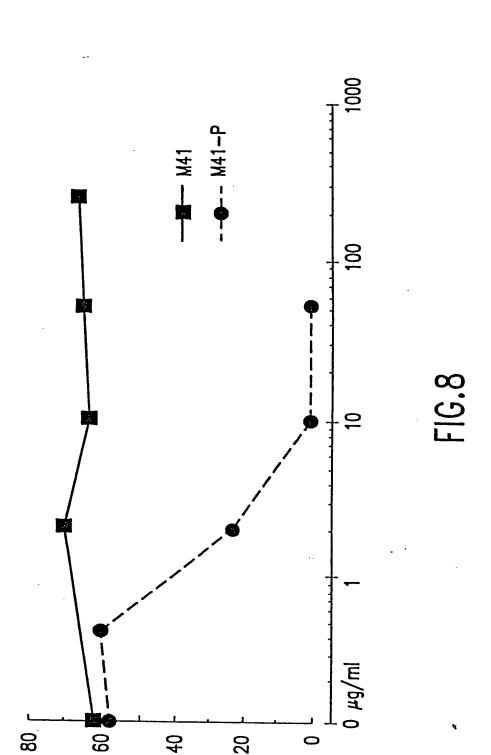
Inventor(s): Barney et al.

Title: "METHODS FOR INHIBITION OF MEMBRANE FUSION-ASSOCIATED EVENTS, INCLUDING HEPATITIS B VIRUS TRANSMISSION"

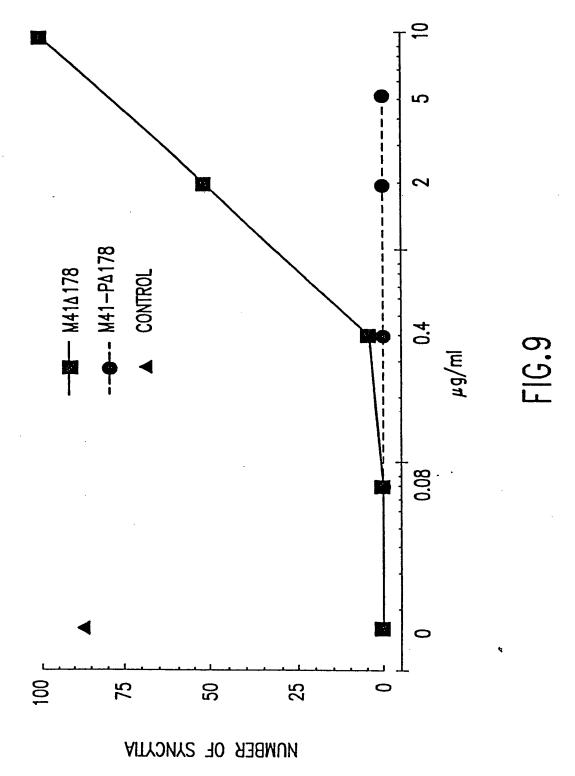


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NUMBER OF SYNCYTIA





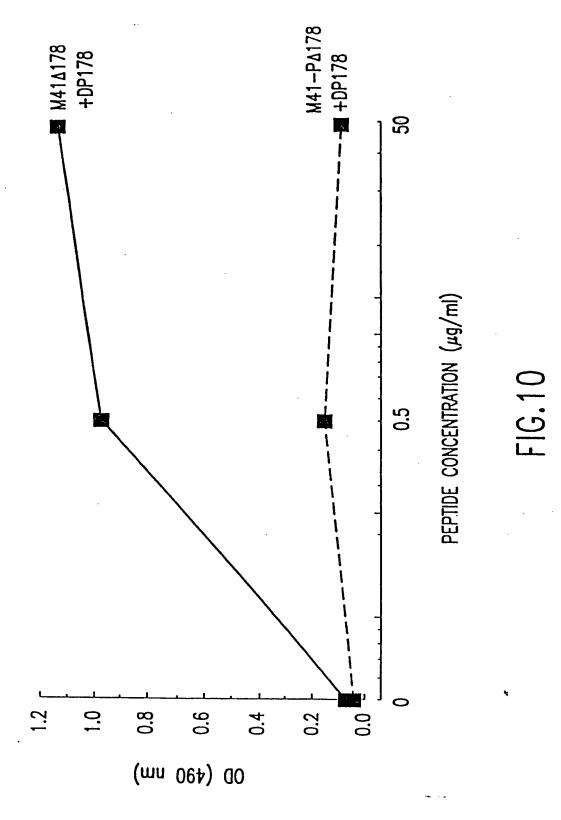
Inventor(s): Barney et al.

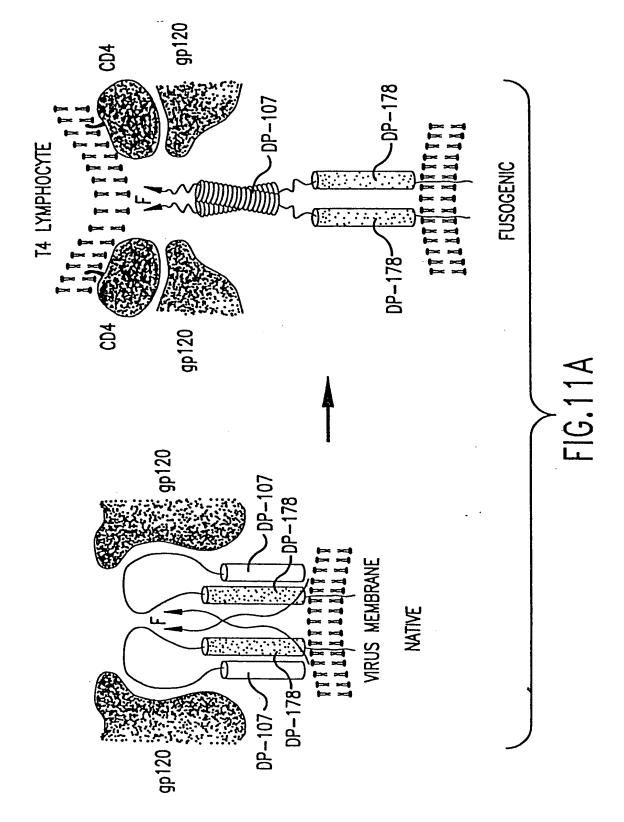
Title: "METHODS FOR INHIBITION OF MEMBRANE FUSION-ASSOCIATED EVENTS, INCLUDING HEPATITIS B VIRUS TRANSMISSION"

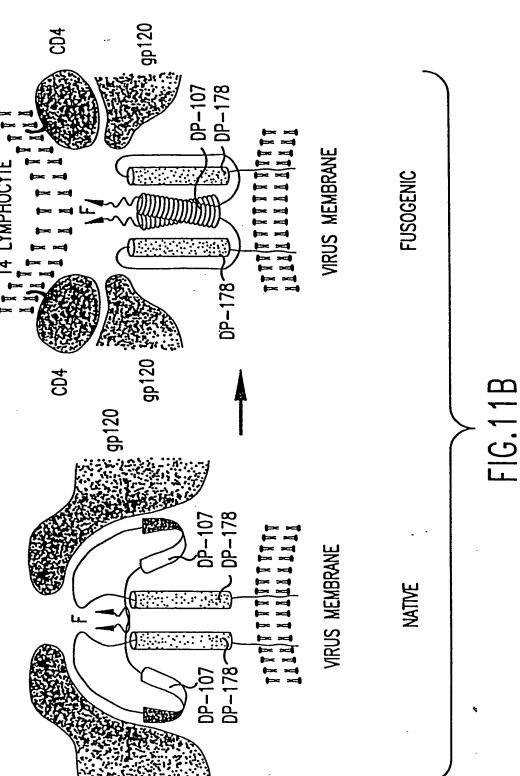
Docket No.: 7872-027-999 Serial No.: 08/487,355



Title: "METHODS FOR INHIBITION OF MEMBRANE FUSION-ASSOCIATED EVENTS, INCLUDING HEPATITIS B VIRUS TRANSMISSION"







Docket No.: 7872-027-999



Motifs		[LMNV] {CFGIMPTW}	[IKLT] {CFGHIMPRWMY}	[AILNV] {CDFGHILPWMY}	[ELR] {ACFGMPVMY}	[FILIV] {ACFLMPIVM}
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	Sequence	GCN4 (qcn4 yeast)	C-FOS (fos_human)	C-JUN (tap1_human)	C-MYC (myo_human)	FLU LOOP 36



Molifs		[ILQT] {CFIMPSTY}	[1LQTV] {CDF IMPST}	[EKLNOV] {CDFKAPSVY}		[EKLNOV] {CFKMPS}	[EKLOY] {ACFGWPRWMY}	[EKLOHY] {CFGNPRVY}	[EFK[C#Y] {CFG#FKVY}	[EILNOSY] {ACFGMPRYMY}	[EILNOSHÝ] {CFGMPRVÝ}		[ברונותכאוו] (כרטתראיו)
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	Parent Hotif	[LMNV] {CFGIMPTH}	[1LQT] {CF IMPSTY} [1LQTV] {CDF IMPST} [1LQTV] {CDF IMPST}	[EKLNOV] {CDFKAPSYY} { [EKLNOV] {CFKAPS} { [EKLNOV] {CFKAPS} {
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Docket No.: 7872-027-999 Serial No.: 08/487,355

Inventor(s): Barney et al.

Title: "METHODS FOR INHIBITION OF MEMBRANE FUSION-ASSOCIATED EVENTS, INCLUDING HEPATITIS B VIRUS TRANSMISSION"

Hybrid Hotif					[EFIKLNOSTWM] {GFMP	
Parent Motif		[1LQTV] {CDF [MPST}	[EKLNOV] {GFIANPS}	[EFKLOHY] {CFGNPRVY}	[EFILNOSIM] {CFGMPRVY} [EFIKLNOSTVIMY] {CFMP	[FILTV] {ACFLIAPTYM]
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Sequence GCN4 (gcn4 yeast) DP-107 (env_hv1bru)L1=D DP-178 (env_hv1bru)Y1=A	A	0	2 × ×	S L X A	E A E	0 L 0 C C C	S H O	4 Z J O	N Y H L E N E V A R L K K L N Y H L E N E V A R L K K L N Y E R Y L K D Q Q E K N E Q E L L E L D K W A S L W N W F		N SE M	C K A B C C C C C C C C C C C C C C C C C C	207		N A O	∀ — >	L A A S	RICKL DLOARILAVER LELDKWASLW?	2 Z	V → E	0	o	[LMN] {CFGIMPTM} [ILQTV] {CDFIMPST} [EFKLOMY] {CFGMPRVY}	[EFIKLHANQIWAY] {CFIAP}
GCN4 (gcn4 yeast) DP-107 (env_hvibru)L1=D DP-178 (env_hvibru)Y1=D	MKQLEDKVEELLSKN NNLLRATEAQGHLL YTSLTHSLTEES	<u> </u>	0 % 5	>	H H H S A N	707	S E E	<u> </u>	N Y H L E N E V A R L K K L L Q L T V W G I K Q L Q A R I L A V E R Y L K D Q S Q N Q Q E K N E Q E L L E L D K W A S L W N W F	<u> </u>	$\mathbf{z} \neq \mathbf{m}$	> - z	& O O		A A L	— <u>—</u>	ا ک ک ک	<u>××</u>	R Y S L	≥=_	× × ×	σu	[LMN] {CFGINPTW} [ILQTV] {CDFINPST} [EFILNQSWY] {CFGNPRVY}	} [EFILMARSTWY] {CFAP}
GCN4 (gcn4 yeast) DP-107 (env_hv1bru)L2=D DP-178 (env_hv1bru)Y1=A	M K Q L E D K V E E L L S K N N N L L R A I E A Q O H L L Q Y T S L I H S L I E E S Q N Q		A A -	S I K	_ A E _ E _ E	7 6 A	N - 0	200	N Y H L E N E V A R L K K L Q L T V W G I K Q L Q A R I L A V E R Y L K D Q Q O E K N E Q E L L E L D K W A S L W N W F	>× —>×	ж о ш — о	> X m	8		X % O	== :=	A V A S		→ Z	<u>× rr</u>	. 0		[LMN] {CFGIMPTW} [EKLNQV] {CFKAPS} [EFKLQMY] {CFGAPRVY}	[EFKLIAKOVAY] {CFIAP}
GCN4 (gcn4 yeast) DP-107 (env_hv1bru)L2=D DP-178 (env_hv1bru)Y1=D	MKQLEDKVEELLSKN NNLLRAIEAQQHLLQ YTSLIHSLIEES	<u> </u>	A A	<u> </u>	H A E	<u> </u>	S L M	<u> </u>	N Y H L E N E V A R L K K L Q L T V W G I K Q L Q A R I L A V E R Y L K D Q S Q N Q Q E K N E Q E L L E L D K W A S L W N W F	<u>0 ₹ w</u>	ж Б — х	>×z	8 - 0	70m 74-	2		A 0 X X	— — — — — — — — — — — — — — — — — —	7 L S L	<u>×</u> ₃=	O X	le.	[LMAV] {CFGIMPTW} [EKLNQV] {CFKAPS} [EFILNQSWY] {CFGAPRVY}	} [EFIKLMADSVMY] {CFIJP}

Docket No.: 7872-027-999 Serial No.: 08/487,355

Inventor(s): Barney et al.

Title: "METHODS FOR INHIBITION OF MEMBRANE FUSION-ASSOCIATED

EVENTS, INCLUDING HEPATITIS B VIRUS TRANSMISSION®



M = Positions env_hv1bru)L2=0

Inventor(s): Barney et al.

Title: "METHODS FOR INHIBITION OF MEMBRANE FUSION-ASSOCIATED EVENTS, INCLUDING HEPATITIS B VIRUS TRANSMISSION"

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P-{P} (10)-[LIV]-{P} (6)-[LIV]-{P} (6)-[LI

FIG. 19



Title: "METHODS FOR INHIBITION OF MEMBRANE FUSION-ASSOCIATED EVENTS, INCLUDING HEPATITIS B VIRUS TRANSMISSION"

Fusion **∀**ALLMOTI5 **∀**

4107x178x44

Peptide *107x178x4*

**____FLGFLG A AGSTMGARSM TLTVQARQ **LL SGIVQQQ DP107-NNL

LRAIEAOOHL LOLTYWGIKO LOARILAYER YLKDO-DP107 QLLG♠♥ I WGC

↑107x178x4 ↑ ↑ALLMOTI5 ↑ *LVS Coilcd-Coil †

SGKLICT TAVP ▼WNASWS NKSLEQIWNN MTWM *E ★WDREINN DP178-

YTSLIHSL IEESONOOEK NEOELLELDK* WASLWNWF-DP178 NI

◆Transmembrane Region ◆

TNWLWYIK ↑ + IF IMIYGGLYGLRIYFAYLSIY NRVRQGYS ▼ PL

+P23LZIPC+

SFQTHLPTPR GPDR +PEGIEE EGGERDRDRS IRLVNGSLAL IWDDLRSL+ CL

♥ALLMOTI5♥

★107x178x4★

F *SYHRLRDLL LIVTRIVELL GRRGW *EALKY WWNLLOYWSO

ELKNSAYSLL NAT ↑ AIAVAEG TDRVIEVVQG A ♥ CRAIRHIPR

RIRQGLERIL L



Title: "METHODS FOR INHIBITION OF MEMBRANE FUSION-ASSOCIATED

EVENTS, INCLUDING HEPATITIS B VIRUS TRANSMISSION"

Fusion

♥ALLMOTI5♥

Peptide

★107x178x4★

v....FLGEL

LGVGSAIAS GVA AYSKYLHL EGEYNKIKSA

+P1&12LZIPC+

LLSTNKAVVS LSNGVSVLTS KYLDLKNYID KQ** LL +PIVNKQ

4107x178x44

SC &SISNIETY I+ EFOOKNNRLLEITREFSYNAG * VITPVSTMLTNSELLSL

+P1&12LZIPC+

♥ALLMOTI5♥

INDM →PI →TNDQ KKLMSNNVQI V→ RQQSYSI→ MS IIKEEVLAYV

VO♥ LPLYGVID TPCWKLHTSP LCTTNTKEGS NICLTRTDRG WYCDNAGSVS

FFPQAETCKV QSNRVFCDTM NSLTLPSEIN LCNVDIFNPK

YDCKIMTSKT DVSSSVITSL GAIVSCYGKT KCTASNKNRG

IIKTFSNGCDYVSNKGMDTV SVGNTLYYVN KQEGKSLYVK G

+P7, 12, & 23LZIPC+

♦107x178x4♦

♥ALLMOTI5♥

EPIINFYDPLVF +PSDE +FDASISQYNEKINQSLAF *I+ RKSDELL+

◆Transmembrane Region ◆

HNVNA + GK STTN + IMITTI IIVIIVILLS LIAVGLLLY + C+

KARSTPVTLS KDQLSGINNI AFSN



Title: "METHODS FOR INHIBITION OF MEMBRANE FUSION-ASSOCIATED EVENTS, INCLUDING HEPATITIS B VIRUS TRANSMISSION"

Fusion

Peptide

∀ALLMOTI5 ♦ 107x178x4 ♦

.....FLGFLG

▼AAGTA MGAAA **◆**TALTYQSQHLLAGILQQQKNLLAAY

4<u>107x178x4</u>4

EAQ♠ QQM ♠LKLTIWGVKNLNARYTALEKYLEDQARLN♠ AWG♥ CA

LVS Coilcd-Coil

♥ALLMOTI5♥ ♠107x178x4♠

WKQVCHTTVP WQWNNRTPDW ◆NNMT *WLE ◆WERQISYLEGNIT

4107x178x44

TOLEEARAQEEKNLD* AYOKLSS* WSDFWSW* FDF *SKWLN *ILK

♦Transmembrane Region ♦

IGFLDYLGIGLRLLYTY+ YS+ CIARVRQGYS PLSPQIHIHP WKGQPDNAEG

PGEGGDKRKN SSEPWQKESG TAEWKSNWCK RLTNWCSISS IWLYNS

VALLMOTI5 V

♥CLTL LVHLRSAFQY IQYGLGELKA AAQEAVVALA RLAQNAGYQIWL ♥

ACRSAYRA IINSPRRVRQ GLEGILN

FIG. 22



Title: "METHODS FOR INHIBITION OF MEMBRANE FUSION-ASSOCIATED EVENTS, INCLUDING HEPATITIS B VIRUS TRANSMISSION"

4107x178x44

Fusion Peptide

♥ ALLMOTI5 ♥

LVS Coilcd-Coil

.....FAG

▼YYL

AGVALGVATA AQITAGIALIIQ **SNLNAQAIQ

SLRTSLEQSNKAIEEIREATQETYIÀ* YQGYQDYA VNNEL▼ VP

VALLMOTISY

4107x178x44

4P6 & 12LZIPC+

AMQHMSCELVGQRLGLRLLRYYTELLSIFGPSLRD *PISA **EISIOALIYAL

GGEHHKILEKLGYSGSD * MIAILESRGIKTKI * THVDLPGKF IILSISY

+P1 & 12LZIPC+

PTLSEVKGVIVHRLEAV SYNIGSQEWYTTVPRYIATNGYLISNFDESSCVFVS

ESAICSQNSL YPMSPLŁQQC IRGDTSSCAR TLVSGTMGNK FILSKGNIVA

NCASILCKCY STSTIINQSP DKLLTFIASD TCPLVEIDGA TIQVGGRQYP

LVS Coiled-Coil

YALLMOTI5

4P12 & 23LZIPC+

DMVYEGKVAL G *PAISLD *RL*DVGTNLGNALKKLDDAKVLI*

◆Transmembrane Region ◆

DSS+ NQILETYRRS ▼* SFN

◆FGSLL SYPILSCTAL ALLLLIYCC◆

K RRYQQTLKQH TKVDPAFKPD LTGTSKSYVR SL



Title: "METHODS FOR INHIBITION OF MEMBRANE FUSION-ASSOCIATED EVENTS, INCLUDING HEPATITIS B VIRUS TRANSMISSION"

Fusion ♥ALLMOTI5♥

Peptide ★107x178x4★ ★.....FIGAI IGSVALGVA TAAQITAASA LIQANQNAAN ★ILRLKESITA

TIEAVHEVTDGLSQLAYA♠ VG KM♥ QQFVNDQFNNTAQELDCIKITQQV

▼ALLMOTI5▼
GVELNLYLTELTTV FGPQITSPAL ▼TQLTIQALYNAGGNMDYLLTKLGVG

+P1 & 12LZIPC+
NNQLSSLIGSGLIT GN♥ +PILYDSQT QLLGIQVTLP SVGNLNNMRATYLET

LSVST TKGFASALVP KVVTQVGSVI EELDTSYCIE TDLDLYCTRI VTFPMSPGIY

SCLNGNTSAC MYSKTEGALT TPYMTLKGSV IANCKMTTCR CADPPGIISQ

♥ALLMOTI5♥

★107x178x4★

NYGEAVSLID RHSCN ★▼VLSLD GITLRLSGEF DATYQKNISI LDSQVIVTG

LVS Coiled-Coil

♦ Trans-

*N LDISTELGNY NNSISNALDK LEESNSKLDK VNYKLTSTSA *LIT* YIA

membrane Region +



Title: "METHODS FOR INHIBITION OF MEMBRANE FUSION-ASSOCIATED **EVENTS, INCLUDING HEPATITIS B VIRUS TRANSMISSION"**

Fusion

▼ALLMOTIS **▼**

Peptide

.....FFGGY

↑107x178x4↑ LVS Coiled-Coil↑ ★IG ▼TIALG *YATSAOITAAYALYEAKOARSDIEKLKE

<u>AIRDTNKAYOSYOSSIGNLIYAIKSYO</u>* <u>DYYNKE</u>♥★ IVPSIARLGCEAAG

YALLMOTI5 ∀

↑107x178x4↑

LQLGIALTQH *YSELTNIFGDNIGSLOEKGIKLOGIASLYRTNITEY*

♣P5 & 12LZIPC♣

IFTTSTVDKYDIYDLLFTESIKVRVIDVDLNDYSITLQVRL +PLLTRLLNTQIYR

VDSISYNI+ QNREWYI+ PLPSHIMTKGAFLGGADVKECIEAFSSYIC

PSDPGFVLNHEMESCLSGNISQCPRTVVKSDIVPRYAFVNGGVVANCITT

TCTCNGIGNRINQPPDQGVKIITHKECNTIGINGMLFNTNKEGTLAFYTP

YALLMOTISY

★107x178x4★

P6 & 23LZIPC

NDITLNNSVALD *PIDI *SIELN *KAKSDLEESKEWI* RRSNQKL.

◆ Transmembrane Region ◆

DSIGNWHQSSTT

+IIIV + LIM IIILFIINYT II +

IIAVKYY R

IQKRNRVDQN DKPYVLTNK

FIG. 25



Title: "METHODS FOR INHIBITION OF MEMBRANE FUSION-ASSOCIATED EVENTS, INCLUDING HEPATITIS B VIRUS TRANSMISSION"

Fusion
Peptide
...GLFGAI AGFIENGWEGMIDGWYGFRHQNSEGTG

4107x178x44

VALLMOTI5V

LVS Coilcd-Coil

*Q *AADLKST *QAAIDQINGKLNRVIEKTNEKTHQIEKEESEVEGRIQ

DLEKYYEDTKIDL* WSYNAELLYALENOHTI♠ DLT♥ DSEMNKLFEKTR

RQLRENAEEMGNGCFKIYHKCDNACIESIRNGTYDHDVYRDEALNNRFQIKG

VELKSGYKDWILWISFAISCFLLCVVLLGFIMWACQRGNIRCNICI

FIG. 26



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Docket No.: 7872-027-999 Serial No.: 08/487,355

Inventor(s): Barney et al.

Title: "METHODS FOR INHIBITION OF MEMBRANE FUSION-ASSOCIATED EVENTS, INCLUDING HEPATITIS B VIRUS TRANSMISSION"

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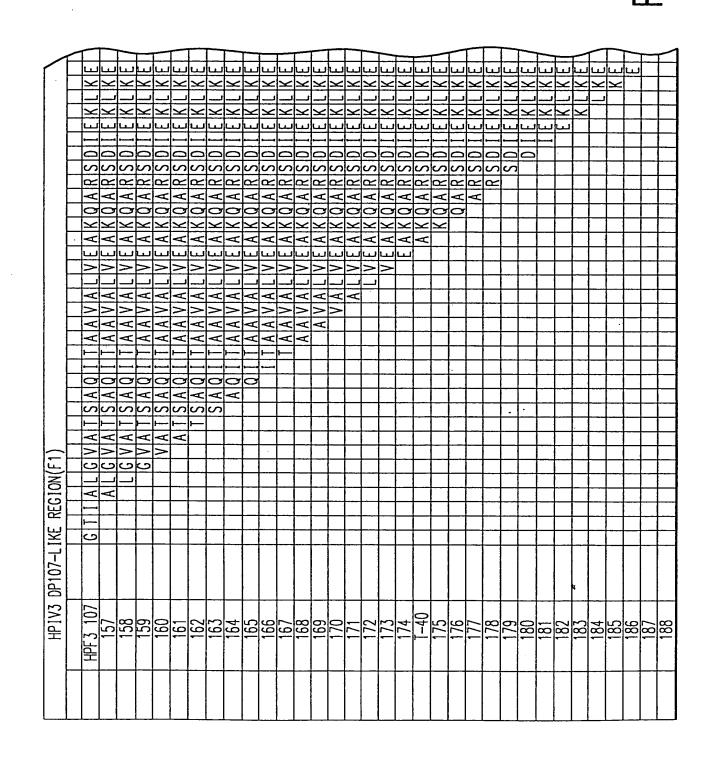
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1-105	+	98	
1-106	1	186	
1-107	‡	20	
1-108	+++	9	
1-109	+++	8	
I-110	#	30	
I-111	##	6	
1-112	‡	8	-/+
I-113	‡	9	-/+
1-114	++	5	-/+
1-115	++	9	-/+
T-116	++	6	-/+
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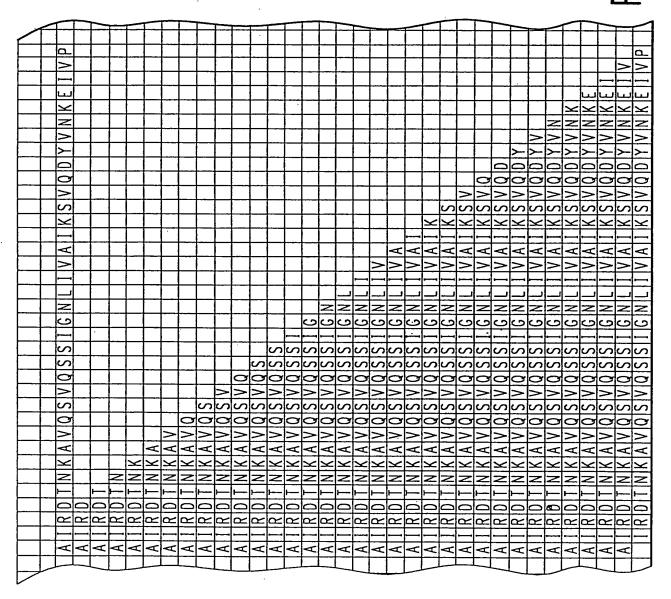
1G.29A





Title: "METHODS FOR INHIBITION OF MEMBRANE FUSION-ASSOCIATED EVENTS, INCLUDING HEPATITIS B VIRUS <u>TRANSMISSION</u>"

FIG. 29B





Docket No.: 7872-027-999

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	IC50	
AV	(UG/ML)	CD
_	574*	+
-	146*	+
-	707*	+
_	536*	+
_	390*	+
	40.3*	+
	123*	+
	512.067*	+++
	742*	
	540+	_
	215*	-
_	680*	-
	137*	_
_	456*	
_	437*	_
+	6.3*	-
++	30*	
+	56*	++
+/-	1	+++
+/-	110*	++
 	197 75*	+++
_	350*	+
++	30*	+
T	295*	<u> </u>
	7.32*	_
-	929*	
_	707*	_
+	218 50*	++
	67.8*	+++
	542*	_
_	613*	_
-	152+	_
_	669*	-
	AV	- 574* - 146* - 707* - 536* - 390* - 403* - 123* - 512.067* - 742* - 540* - 215* - 680* - 137* - 456* - 437* + 63* + 10* - 197.75* - 350* + 30* - 295* - 732* - 929* - 707* - 218.50* + 67.8* - 542* - 613* - 152*

FIG.29C



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	-3 DP107-LIKE WALKS				AVA	AVAL	AKQARSDI	A K O A K O A K O D I E K	X 3 1					TRUNCATED 184



Docket No.: 7872-027-999

AVG. 1C50	 643.000 µg/ml*	655.000 µg/ml*	720.000 µg/ml*	*Im/pu 000.007	58.798 µg/ml	225.140 µg/ml	485.000 µg/ml*	548.000 µg/ml*		137.654 µg/ml*
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KE REGION (F1)		345671234567123456712	Y T P N O I T L N N S V A L O P I O I S I E L	ITLNNSVALDPIDISIEL	NDITLNNSVALDPIDISIEL	NOITINNSVALDPIDISIEL	DITLNNSVALDPIDISIEL	ITLNNSVALDPIDISIEL	LDPIDISIEL	NSVALDPIDISIEL	N S V A L D P 1 D 1 S 1 E L	NSVALDPIDISIEL	SVALOPIDISIEL	ALDPIDISIEL	ALDPIDISIEL	LOPIOISIEL	1015161	P 1 0 1 S 1 E L	1318101	1 3 1 8 1	13181	1	<u> </u>		Ī
IKE REGION (F1)		345671234567123456712	Y T P N O I T L N N S V A L O P I O I S I E L	ITLNNSVALDPIDISIEL	NDITLNNSVALDPIDISIEL	NOITINNSVALDPIDISIEL	DITLNNSVALDPIDISIEL	ITLNNSVALDPIDISIEL	LDPIDISIEL	NSVALDPIDISIEL	N S V A L D P 1 D 1 S 1 E L	NNSVALDPIDISIEL	NSVALDPIDISIEL	S V A L 0 P 1 0 1 S 1 E L	ALDPIDISIEL	LOPIOISIEL	1015161	P 1 0 1 S 1 E L	1318101	1 3 1 8 1	13181	1	<u> </u>		Ī
-L IKE REGION (F1)		345671234567123456712	Y T P N O I T L N N S V A L O P I O I S I E L	Y T P N D I T L N N S V A L D P I D I S I E L	TPNDITLNNSVALOPIDIISIEL	PND111LNNSVALDP11D11S11EL	NOITINNSVALDPIDIISIEL	0 1 1 1 L N N S V A L D P 1 D 1 S 1 E L	I T L N N S V A L D P I D I S I E L	TLNNSVALDPIIDIISIEL		NNSVALDPIDISIEL	NSVALDPIDISIEL	S V A L 0 P 1 0 1 S 1 E L		AL0P1011S11EL		13181011811 131811011811811811811811811811811811811811	131 S 11 0 11 d	131181101	131510	1318			13
3-LIKE REGION (F1)		345671234567123456712	Y T P N O I T L N N S V A L O P I O I S I E L	Y T P N D I T L N N S V A L D P I D I S I E L	TPNDITLNNSVALOPIDIISIEL	PND111LNNSVALDP11D11S11EL	NOITINNSVALDPIDIISIEL	0 1 1 1 L N N S V A L D P 1 D 1 S 1 E L	I T L N N S V A L D P I D I S I E L	TLNNSVALDPIIDIISIEL		NNSVALDPIDISIEL	NSVALDPIDISIEL	S V A L 0 P 1 0 1 S 1 E L		AL0P1011S11EL		13181011811 131811011811811811811811811811811811811811	131 S 11 0 11 d	131181101	131510	1318			13
78-LIKE REGION (F1)		345671234567123456712	178 Y T P N O I T L N N S V A L O P I O I S I E L	ITLNNSVALDPIDISIEL	TPNDITLNNSVALOPIDIISIEL	NOITINNSVALDPIDISIEL	DITLNNSVALDPIDISIEL	ITLNNSVALDPIDISIEL	LDPIDISIEL	NSVALDPIDISIEL	N S V A L D P 1 D 1 S 1 E L	NNSVALDPIDISIEL	SVALOPIDISIEL	S V A L 0 P 1 0 1 S 1 E L		AL0P1011S11EL		13181011811 131811011811811811811811811811811811811811	131 S 11 0 11 d	131181101	131510	1318			13
178-L IKE REGION (F1)		345671234567123456712	178 Y T P N O I T L N N S V A L O P I O I S I E L	Y T P N D I T L N N S V A L D P I D I S I E L	TPNDITLNNSVALOPIDIISIEL	PND111LNNSVALDP11D11S11EL	NOITINNSVALDPIDIISIEL	0 1 T L N N S V A L D P 1 D 1 S 1 E L	I T L N N S V A L D P I D I S I E L	TLNNSVALDPIIDIISIEL		NNSVALDPIDISIEL	NSVALDPIDISIEL	S V A L 0 P 1 0 1 S 1 E L		AL0P1011S11EL		P 1 0 1 S 1 E L	131 S 11 0 11 d	131181101	131510	1318			Ī
P178-LIKE REGION (F1)		345671234567123456712	178 Y T P N O I T L N N S V A L O P I O I S I E L	Y T P N D I T L N N S V A L D P I D I S I E L	TPNDITLNNSVALOPIDIISIEL	PND111LNNSVALDP11D11S11EL	NOITINNSVALDPIDIISIEL	0 1 T L N N S V A L D P 1 D 1 S 1 E L	I T L N N S V A L D P I D I S I E L	TLNNSVALDPIIDIISIEL		NNSVALDPIDISIEL	NSVALDPIDISIEL	S V A L 0 P 1 0 1 S 1 E L		AL0P1011S11EL		13181011811 131811011811811811811811811811811811811811	131 S 11 0 11 d	131181101	131510	1318			13
DP178-LIKE REGION (F1)		345671234567123456712	178 Y T P N O I T L N N S V A L O P I O I S I E L	Y T P N D I T L N N S V A L D P I D I S I E L	TPNDITLNNSVALOPIDIISIEL	PND111LNNSVALDP11D11S11EL	NOITINNSVALDPIDIISIEL	0 1 T L N N S V A L D P 1 D 1 S 1 E L	I T L N N S V A L D P I D I S I E L	TLNNSVALDPIIDIISIEL		NNSVALDPIDISIEL	NSVALDPIDISIEL	S V A L 0 P 1 0 1 S 1 E L		AL0P1011S11EL		13181011811 131811011811811811811811811811811811811811	131 S 11 0 11 d	131181101	131510	1318			13
3 DP178-L IKE REGION (F1)		345671234567123456712	Y T P N O I T L N N S V A L O P I O I S I E L	Y T P N D I T L N N S V A L D P I D I S I E L	TPNDITLNNSVALOPIDIISIEL	PND111LNNSVALDP11D11S11EL	NOITINNSVALDPIDIISIEL	0 1 T L N N S V A L D P 1 D 1 S 1 E L	I T L N N S V A L D P I D I S I I E L	TLNNSVALDPIIDIISIEL		NNSVALDPIDISIEL	NSVALDPIDISIEL	S V A L 0 P 1 0 1 S 1 E L		AL0P1011S11EL		13181011811 131811011811811811811811811811811811811811	131 S 11 0 11 d	131181101	131510	1318			13
73 DP178-LIKE REGION (F1)		345671234567123456712	178 Y T P N O I T L N N S V A L O P I O I S I E L	Y T P N D I T L N N S V A L D P I D I S I E L	TPNDITLNNSVALOPIDIISIEL	PND111LNNSVALDP11D11S11EL	NOITINNSVALDPIDIISIEL	0 1 T L N N S V A L D P 1 D 1 S 1 E L	I T L N N S V A L D P I D I S I I E L	TLNNSVALDPIIDIISIEL		NNSVALDPIDISIEL	NSVALDPIDISIEL	S V A L 0 P 1 0 1 S 1 E L		AL0P1011S11EL		13181011811 131811011811811811811811811811811811811811	131 S 11 0 11 d	131181101	131510	1318			13
1V3 DP178-LIKE REGION (F1)		345671234567123456712	178 Y T P N O I T L N N S V A L O P I O I S I E L	Y T P N D I T L N N S V A L D P I D I S I E L	TPNDITLNNSVALOPIDIISIEL	PND111LNNSVALDP11D11S11EL	NOITINNSVALDPIDIISIEL	0 1 T L N N S V A L D P 1 D 1 S 1 E L	I T L N N S V A L D P I D I S I I E L	TLNNSVALDPIIDIISIEL		NNSVALDPIDISIEL	NSVALDPIDISIEL	S V A L 0 P 1 0 1 S 1 E L		AL0P1011S11EL		13181011811 131811011811811811811811811811811811811811	131 S 11 0 11 d	131181101	131510	1318			13
P1V3 DP178-LIKE REGION (F1)		345671234567123456712	178 Y T P N O I T L N N S V A L O P I O I S I E L	Y T P N D I T L N N S V A L D P I D I S I E L	TPNDITLNNSVALOPIDIISIEL	PND111LNNSVALDP11D11S11EL	NOITINNSVALDPIDIISIEL	0 1 T L N N S V A L D P 1 D 1 S 1 E L	I T L N N S V A L D P I D I S I I E L	TLNNSVALDPIIDIISIEL		NNSVALDPIDISIEL	NSVALDPIDISIEL	S V A L 0 P 1 0 1 S 1 E L		AL0P1011S11EL		13181011811 131811011811811811811811811811811811811811	131 S 11 0 11 d	131181101	131510	1318			13
HP1V3 DP178-LIKE REGION (F1)		345671234567123456712	178 Y T P N O I T L N N S V A L O P I O I S I E L	Y T P N D I T L N N S V A L D P I D I S I E L	TPNDITLNNSVALOPIDIISIEL	PND111LNNSVALDP11D11S11EL	NOITINNSVALDPIDIISIEL	0 1 T L N N S V A L D P 1 D 1 S 1 E L	I T L N N S V A L D P I D I S I I E L	TLNNSVALDPIIDIISIEL		NNSVALDPIDISIEL	NSVALDPIDISIEL	S V A L 0 P 1 0 1 S 1 E L		AL0P1011S11EL		13181011811 131811011811811811811811811811811811811811	131 S 11 0 11 d	131181101	131510	1318			13
HP1V3 DP178-LIKE REGION (F1)		345671234567123456712	178 Y T P N O I T L N N S V A L O P I O I S I E L	Y T P N D I T L N N S V A L D P I D I S I E L	TPNDITLNNSVALOPIDIISIEL	PND111LNNSVALDP11D11S11EL	NOITINNSVALDPIDIISIEL	0 1 T L N N S V A L D P 1 D 1 S 1 E L	I T L N N S V A L D P I D I S I E L	TLNNSVALDPIIDIISIEL		NNSVALDPIDISIEL	NSVALDPIDISIEL	S V A L 0 P 1 0 1 S 1 E L		AL0P1011S11EL		13181011811 131811011811811811811811811811811811811811	131 S 11 0 11 d	131181101	131510	1318			13



Inventor(s): Barney et al.

Title: "METHODS FOR INHIBITION OF MEMBRANE FUSION-ASSOCIATED EVENTS, INCLUDING HEPATITIS B VIRUS TRANSMISSION"

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		CO	-	1	ı	ı	-	-	‡	4-	#	+	+	#	+	+	+	+	+	+	+	+	+	+
	1050	(lm/bn)	827*	775*	612*	*669	525*	61*	49	3.1	71.15	0.325	2.3*	1.0*	0.224*		0.390*	0.213	0.174	2.0*	2.0*	37*	1.0*	2.0*
		٨V	-		ı	ı		+	+	‡	‡	+++	#	#	+++	+++	##	##	+++	‡	+++	#	#	#
		HP1V3 178	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203			206	207	208	209	210
						-		_		\vdash	-		-		-	-	-			-		-		

FIG. 30B



Docket No.: 7872-027-999 Serial No.: 08/487,355

Inventor(s): Barney et al.

Title: "METHODS FOR INHIBITION OF MEMBRANE FUSION-ASSOCIATED EVENTS, INCLUDING HEPATITIS B VIRUS TRANSMISSION"

T-269 TRUNCATED 201			I E W I	EWIRRISINIQIKILIDISIII	457.500UC/ML
T-626 205 MUTANT	1101181161	NKAKSDL	EESKEWI	II IS II E IL IN K IA K IS ID IL E E IS K E W II IK K IS IN Q K IL ID IS I I G IN W H	209.589NG/ML
T-383 R M K Q L E D K V E E L L S K L E W	L E W I R S N	IRRSNQKLDSI			NOT DONE
T-577 D Q Q I K Q Y K R L L D R L I	IPLYDCLR	Y D G L R Q K D V I V S N Q E S N	N O E		133.793UC/AIL*
T-578 YSELTINIFGDNIGSLO	ㅗ	GIKLOGIASLYRTNITE	N I I I I		107.177UG/AIL*
1-579 T S T T T O V R I P I I R I			N N N		NOT DONE



Title: "METHODS FOR INHIBITION OF MEMBRANE FUSION-ASSOCIATED EVENTS, INCLUDING HEPATITIS B VIRUS TRANSMISSION"

LLDVVKRQQELLRLTVWGTKNLQTRVTAIEKYLKDQAQLNAWG♥ CAF

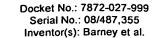
▼ALLMOTI5♥

*LVS PREDICTED COILED-COIL

RQVCHTTVPWPNASLTPDW *MND ▼TWQEWERKVDFLEENITALLEEAQIQQ

<u>♦107x178x4</u> EKNMY <u>♦ELQKLNSWD</u>* <u>VF</u>♥ <u>GNXXXXXXXXXXXXXXXXXXXXXXX</u>

IYIVMLAKLRQGYRPVFSSPPSYFQXTHTQQDPALPTREGKEGDGGEGGGNSSWP WQIEYIHF



EVENTS, INCLUDING HEPATITIS B VIRUS TRANSMISSION"

Inventor(s): Barney et al. Title: "METHODS FOR INHIBITION OF MEMBRANE FUSION-ASSOCIATED



MTRRRVLSVVVLLAALACRLGAQTPEQPAPPATTVQPTATRQQTSFPFRVCELSSHGDLFRFSSD

★ 107x178x4**★**

IOCPSFGTRENHTEGLLMVFKDNIIPYSF ♠ KVRSYTKIVTNILIYNGWYADSVTNRHE♠ EKFSVDSY ETDQMDTIYQ CYNAVKMTKD GLTRVYVDRD GVNITVNLKP TGGLANGVRR YASQTELYDA PGWLIWTYRT RTTVNCLITD MMAKSNSPFD FFVTTTGQTV EMSPFYDGKN KETFHERADS FHVRTNYKIV DYDNRGTNPQ GERRAFLDKG TYTLSWKLEN RTAYCPLQHW OTFDSTIATE TGKSIHFVTD EGTSSFVTNT TVGIELPDAF KCIEEQVNKT HEKYEAVQD RYTKGQEAIT YFITSGGLLL AWLPLTPRSL ATVKNLTELT TPTSSPPSSP SPPAPSAARG STPAAVLRRR RRDAGNATTP VPPTAPGKSL GTLNNPATVQ IQFAYDSLRR QINRMLGDLA RAWCLEQKRQ NMVLRELTKI NPTTVMSSIY GKAVAAKRLG DVISVSQCVP VNQATVTLRK

★107x178x4**★**

SMRVPGSETM CYSRPLVSFS FINDTKTYEG QLGTDNEIFL TKKMTEVCQA TSQYYFQSGN

LVS PREDICTED COILED COIL TM Potential GIFREYNFQAQNIAGLRKDLDNAVSN* GRNQ FVDGLGELMDSLGSVG QSITN

♣P12LZIPC♣

TM Potential

TM Potential

LVSTVGGLFSSLVSGFISF FK N &PFGGMLILVLVAGVVILVISL& TRRTRQMS

QQPVQMLYPG IDELAQQHAS GEGPGINPIS KTELQAIMLA LHEQNQEQKR AAQRAAGPSV ASRALQAARDRFPGLRRRRY HDPETAAALL GEAETEF



Title: "METHODS FOR INHIBITION OF MEMBRANE FUSION-ASSOCIATED EVENTS, INCLUDING HEPATITIS B VIRUS TRANSMISSION"

MMDPNSTSED VKFTPDPYQV PFVQAFDQAT RVYQDLGGPS QAPLPCVLWP VLPEPLPQGQ LTAYHVSTAP TGSWFSAPQP APENAYQAYA APQLFPVSDI TQNQQTNQAG GEAPQPGDNS TVQTAAAVVF ACPGANQGQQ LADIGVPQPA PVAAPARRTR KPQQPESLEE CDSELEI

@DNA BINDING@

★107x178X4★

+DIMERIZATION+

@KRY KNRVASRKCRAK

★FK@ Q

+LLOHYREVAAAKSSENDRLRLLLKQ♠

MCPSLDVD+ SI IPRTPDVLHE DLLNF

Title: "METHODS FOR INHIBITION OF MEMBRANE FUSION-ASSOCIATED EVENTS, INCLUDING HEPATITIS B VIRUS TRANSMISSION"



FUSION

PEPTIDE

♥ALLMOTI5♥

LVS_COILED-COIL

FAG

♥VVLAGAALGVATAAQITAGIALHQSML*NSOAIDNLRASLETTN

OAIEAIROAGOEMI*LAVQGVQDYINN♥ ELIPSMNQLSCDLIGQKLGLKLLRYYT

♣P23LZIPC♣

♣P6.12LZIPC♣

★107X178X4★

♥ALLMOTI5♥

EILSLFGPSLRD ♣PISA ♠♥EISIOLSYALGGDINKV♣ LEKLGYSGGDL♣

♣P1.12LZIPC♣

LGILES RGIKARI♥ THVDTESYFIVLSIAY ♣PTLSEIKGVIVHRLEGV♣ SY

NIGSQEWYTTVPKYVATQGYLISNFDESSCTFMPEGTVCSQNALYPMSPLLQECL

RGSTKSCARTLVSGSFGNRFILSQGNLIANCASILCKCYTTGTIINQDPDKILTYIAA

♣P23LZIPC♣

♣P12LZIPC♣

♥ALLMOTI5♥·

LVS COILED-COIL

DHCPVVEVNGVTIQVGSRRYPDAVYLHRIDLGP ♣P ▼IS *LERLDVGTNLGN

◆TRANSMEMBRANE REGION◆

<u>AIAKLEDAKELL</u>♣ <u>ESSDOI</u>*L♣ RSMK ♦<u>GLSSTSIVYILI</u>♥ **AVCLGGLIGIP**

<u>ALICCC</u>♦ RGRCNKKGEQVGMSRPGLKPDLTGTSKSYVRSL



Title: "METHODS FOR INHIBITION OF MEMBRANE FUSION-ASSOCIATED EVENTS, INCLUDING HEPATITIS B VIRUS <u>TRANSMISSION</u>"

Pre S1 and Pre S2
MGQNLSTSNPLGFFPDHQLDPAFRANTANPDWDFNPNKDTWPDANKVGAGAFG
LGFTPPHGGLLGWSPQAQGILQTLPANPPPASTNRQSGRQPTPLSPPLRNTHPQAM
QWNSTTFHQTLQDPRVRGLYFPAGGSSSGTVNPVLTTASPLSSIFSRIGDPALN

MAJOR SURFACE ANTIGEN(HBs)

FUSION

PEPTIDE

♣P12 & 23LZIPC♣

MENITSG FLG &PLL VLQAGFFLLTRILTI PQSLDSWWTSLNFLGGTTVCLG

♣P12 & 23LZIPC♣
QNSQSPTSNHSPTSCPPTC ♣PGYRWMCLRRFIIFLFILLLCLIFLLVLLDYQGML♣
PVCPLIPGSSTTSTGPCRTCMTTAQGTSMYPSCCCTKPSDGNCTCIPIPSSWAFGKF

◆TRANSMEMBRANE REGION◆
LWEWASARFSWLS ◆LLYPFYQWFYGLSPTYWLSYI♦ WMMWYWGPSL

- **♦TRANSMEMBRANE REGION**
- **†YSILSPFLPLLPIFFCLWYYI**



Title: "METHODS FOR INHIBITION OF MEMBRANE FUSION-ASSOCIATED EVENTS, INCLUDING HEPATITIS B VIRUS TRANSMISSION"

FUSION ♥ ALLMOTI5 ♥ ♠107x 178x4♠

PEPTIDE *LVS COILED COIL

AIQLIPLFVG LGI ♥TTAVSTGAAGLGVS ♠IT *QYTKLSHQLISDY

QAISSTIQDLQDQVDSLAEVVLQ* NRRGLDLLTAE♠ QGGI♥

CLALQEKCCFYANKSGIVRDKIKNLQDDLERRRRQLIDNPFWTSFHG

FLPYVMPLLGPLLCLLLVLSFGPIIFNKLMTFIKHQIESIQAKPIQVHYH

TRANSMEMBRANE REGION RLEQEDSGGSYLTLT.....??????????????????????....

Title: "METHODS FOR INHIBITION OF MEMBRANE FUSION-ASSOCIATED EVENTS, INCLUDING HEPATITIS B VIRUS <u>TRANSMISSION</u>"

MKAQKGFTLI ELMIVVAIIG ILAAIAPGQ

★107x178x4★

▼ALLMOTI5♥

♦♥YODYTARTOVTRAVSEVSALKTAAESAILEGKEIVSSA♠ T♥

PK DTQYDIGFT

±107x178x4**±**

♥ALLMOTI5♥

≜♥ESTLLDGSGKSQIQVTDNQDGTVELYATLGKSSGS AIKGAVITSR♥

KNDGV WNCKITKTPT AWKPNYAPAN CPKS



Title: "METHODS FOR INHIBITION OF MEMBRANE FUSION-ASSOCIATED EVENTS, INCLUDING HEPATITIS B VIRUS TRANSMISSION"

MNTLQKGFTL IELMIVIAIV GILAAVALPA YQDYTARAQV

SEAILLAEGQ KSAVTEYYLN HGIWP

★107x178x4★

♥ALLMOTI5**♥**

★*KDNTSAGVASSSSIKGKYVKEVKVENGVVTAT

MNSSNVNKEIQGKKLSLWAKRQDGSVKW♥

FCGQP VTRNAKDDTV TADATGNDGK IDTKHLPSTC RDNFDAS

Title: "METHODS FOR INHIBITION OF MEMBRANE FUSION-ASSOCIATED

EVENTS, INCLUDING HEPATITIS B VIRUS TRANSMISSION"

MKKTLLGSLI LLAFAGNVQA DINTETSGKV TFFGKVVENT

CKVKTEHKNL SVVLNDVGKN SLSTKVNTAM PTPFTITLQN

CDPTTANGTA NKANKVGLYF Y

★107x178x4★

♥ALLMOTI5♥

♦♥SWKNYDKENNFTLKNEOTTADYATNYNI◆

QLMESNGTKAISVVGKETE

DF MHTNNNGVAL NQTHPNNAHI SGSTQLTTGT NELPLHFIAQ

YYATNKATAG KVQSSVDFQI AYE

Title: "METHODS FOR INHIBITION OF MEMBRANE FUSION-ASSOCIATED EVENTS, INCLUDING HEPATITIS B VIRUS <u>TRANSMISSION</u>"

MNKKLLMNFF IVSPLLLATT ATDFTPVP

- **±107x178x4±**
- **♥ALLMOTI5♥**
- **♦♥LSSNOIIKTAKASTNDNIKDLLDWYSSGSDTFTNS♦♥**

EVLDNSL GSMRIKNTDG SISLIIFPSP YYSPAFTKGE KV

- **★107x178x4★**
- **<u>ADLNTKRTKKSOHTSEGTYIHFOISGVT**</u>

N TEKLPTPIEL PLKVKVHGKD SPLKYG

- **♣P12LZIPC♣**
- **♣**PKFDKKQLAISTLDFEIRHQLTQI**♣**

HGLYRSSDKT GGYWKITMND GSTYQSDLSK KFEYNTEKPP

INIDEIKTIE AEIN



Title: "METHODS FOR INHIBITION OF MEMBRANE FUSION-ASSOCIATED EVENTS, INCLUDING HEPATITIS B VIRUS TRANSMISSION"

♥ALLMOTI5**♥**

MKKTAFILLL FIALTLTTSP L

♥VNG

±107x178x4**±**

- *LVS PREDICTED COILED-COIL*
- *S ♠EKSEEINEKDLRKKSELQRNALSNLRQIY* YYNEKAITENKESDD♠

QFLENTLL♥ FKG FFTGHPW

- **±**107x178x4**±**
- **<u>AYNDLLYDLGSKDATNKYKGKKVDLYGAY**</u>

YGYQCAGGTPNKTACMYGGVTLHDN NRLTEEKKVP INLWIDGKQTTV

- **♣P12LZIPC♣**
- **♣**PIDKVKTSKKEVTVQELDL**♣** QARHYLHGK FGLYNSDSFGGKVQ

♣P12LZIPC**♣**

RGLIVF HSSEGSTVSY DLFDAQGQY ♣P DTLLRIYRDN KTINSENLHI♣

DLYLYTT



Title: "METHODS FOR INHIBITION OF MEMBRANE FUSION-ASSOCIATED EVENTS, INCLUDING HEPATITIS B VIRUS <u>TRANSMISSION</u>"

♥ALLMOTI5**♥**

MKKTAFTLLL FIALTLTTSP L ♥VNGS

★107x178x4★

★EKSEEINEKDLRKKSELQGTALGNLKQIYYYNEKAKTENKESHD★Q♥

FLQHTILFKG FFTDHSWYND LLVDFDSKDI VDKYKGKKVDLYGAYY

GYQC AGGTPNKTAC MYGGVTLHDN NRLTEEKKVPINL WLDGKQNTV

<u>\$107x178x4</u>

♥ALLMOTI5♥

♣P12LZIPC♣

♣P ♥L ♠ETVKTNKKNVTVQELDLQARRYL♣ QEKYNLYN♠

SDVFDGKVQR♥ GLIVF HTSTE

♣P23LZIPC♣

♣PSVNYDLFGAQGQYSNTLLRIYRDNKTINSENMHI**♣** DIYLYTS

Title: "METHODS FOR INHIBITION OF MEMBRANE FUSION-ASSOCIATED EVENTS, INCLUDING HEPATITIS B VIRUS TRANSMISSION"

MKNITFIFFILLASPLYANGDRLYRADSRPPDEIKRFRSLMPRGNEYFDRGT

♥ALLMOTI5**♥**

♥QMNINLYDHARGTQTGFVRYDDGYV

±107x178x4**±**

★STSLSLRSAHLAGQYILSGYSLTIYIVI ANMFNVNDVISVY♥

SP HPYEQEVSAL GGIPYSQIYG WYRVNFGVID ERLHRNREYR

DRYYRNLNIA PAEDGYRLAG FPPDHQAWRE EPWIHHAPQG

CGDSSRTITG DTCNE

♥ALLMOTI5**♥**

♥ETQNLSTIYLREYQSKVKRQIFSDYQSEVDIYNRIRDEL**♥**



Title: "METHODS FOR INHIBITION OF MEMBRANE FUSION-ASSOCIATED EVENTS, INCLUDING HEPATITIS B VIRUS TRANSMISSION"

MMFSGFNADY EASSSRCSSA SPAGDSLSYY HSPADSFSSM GSPVNAQDFC TDLAVSSANF IPTVTAISTS PDLQWLVQPA LVSSVAPSQT RAPHPFGVPA PSAGAYSRAG VVKTMTGGRA

LVS PREDICTED COILED-COIL
QSIGRRGKVE QLSPEEEEKR RIRRE *RNKMA AAK

±107x178x4±

♥ALLMOTI5♥

♥CRNRRREL <u>★TDTLQAETDQLEDEKSALQTEIANLLKEKEKL</u>♥

EFILAAHR* PACKIPDDL GFPEEMSVAS LDLTGGLPEV
ATPESEEAFT LPLLNDPEPK PSVEPVKSIS SMELKTEPFD
DFLFPASSRP SGSETARSVP DMDLSGSFYA LPLLNDPEPK
PSVEPVKSIS SMELKTEPFD DFLFPASSRP SGSETARSVP
DMDLSGSFYA GSSSNEPSSD SLSSPTLLAL



Title: "METHODS FOR INHIBITION OF MEMBRANE FUSION-ASSOCIATED EVENTS, INCLUDING HEPATITIS B VIRUS TRANSMISSION"

SGWESYYKTEGDEEAEEQEENLEASGDYKYSGRDSLIFLVDASKA
MFESQSEDELTPFDMSIQCIQSVYISKIISSDRDLLAVVFYGTEKDKNS
VNFKNIYVLQELDNPGAKRILELDQFKGQQGQKRFQDMMGHGSDY
SLSEVLWVCANLFSDVQFKMSHKRIMLFTNEDNPHGNDSAKASRAR
TKAGDLRDTGIFLDLMHLKKPGGFDISLFYRDIISIAEDED

★107x178x4★

♥ALLMOTI5**♥**

LVS PREDICTED COILED-COIL

♥LRVH *FEE \LSKLEDLLRKVRAKETRKRALSRLKLKLNKDIV* ISV

GIYNLVQKAL♥ KPPPIKLYRETN♠ EPVKTKTRTFNTSTGGLLLPSDTKR

SQIYGSRQIILEKEETEELKRFDDPGLMLMGFKPLVLLKKHHLRPSLFVYPE ESLVIGS STLFSALLIKCLEKEVAALCRYTPRRNIPPYFVALVPQEEELDDQK IQVTPPGFQLVFLPFADDKRKMPFTEKIMATPEQVGKMKAIVEKLRFTYRS DSFENPVLQQHFRNLEALALDLME

♣PI2LZIPC♣

♣PEQAVDLTLPKVEAMNKRL♣ GSLVDEFKELVYPPDYNPEGKVTKR KHDNEGSGSKRPKVEYSEEELKTHISKGTLGKFTVPMLKEACRAYGLKSG LKKQELLEALTKHFQD



Title: "METHODS FOR INHIBITION OF MEMBRANE FUSION-ASSOCIATED EVENTS, INCLUDING HEPATITIS B VIRUS TRANSMISSION"

GGGALSPQHSAVTQGSIIKNKEGMDAKS

★107x178x4★

♥ALLMOTI5♥

▼♠LTAWSRTLYTFKDYFYDFTREEWKLLDT ♠ AQQIVYRNV
MLENYKNLVSLGYQLT♥ KPDVILRLEKGEEPWLVEREIHQETHPD
SETAFEIKSSVSSRSIFKDKQSCDIKMEGMARNDLWYLSLEEVWKCR
DQLDKYQENPERHLRHQLIHTGEKPYECKECGKSFSRSSHLIGHQKT
HTGEEPYECKECGKSFSWFSHLVTHQRTHTGDKLYTCNQCGKSFVH
SSRLIRHQRTHTGHKPYECPECGKSFRQSTHLILHQRTHVRVRPYECN
ECGKSYSQRSHLVVHHRIHTGLKPFECKDCGKCFSRSSHLYSHQRTH
TGEKPYECHDCGKSFSQSSALIVHQRIHTGEKPYECCQCGKAFIRKN
DLIKHQRIHVGAETYKCNQCGIIFSQNS

♣P23LZIPC♣

♣PFIVHQIAHTGEQFLTCGNQCGTALVNTSNLIGQTNHI♣ RENAY



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Inventor(s): Barney et al.

Title: "METHODS FOR INHIBITION OF MEMBRANE FUSION-ASSOCIATED EVENTS, INCLUDING HEPATITIS B VIRUS TRANSMISSION"

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FIG. 48A



Title: "METHODS FOR INHIBITION OF MEMBRANE FUSION-ASSOCIATED EVENTS, INCLUDING HEPATITIS B VIRUS <u>TRANSMISSION</u>"

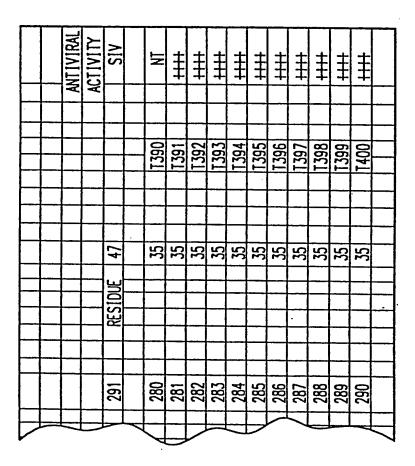
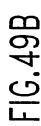
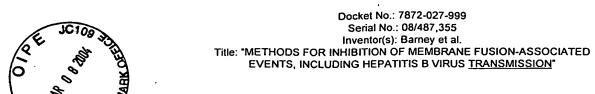


FIG. 48B

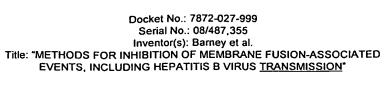


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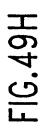
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Docket No.: 7872-027-999 Serial No.: 08/487,355

Inventor(s): Barney et al.

Title: "METHODS FOR INHIBITION OF MEMBRANE FUSION-ASSOCIATED **EVENTS, INCLUDING HEPATITIS B VIRUS TRANSMISSION"**

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Inventor(s): Barney et al.

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Docket No.: 7872-027-999 Serial No.: 08/487,355

Inventor(s): Barney et al.

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Title: "METHODS FOR INHIBITION OF MEMBRANE FUSION-ASSOCIATED EVENTS, INCLUDING HEPATITIS B VIRUS TRANSMISSION"

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